

**Richard A. Schwartz**

---

**From:** Eddie J. Baba  
**Sent:** Wednesday, April 19, 2006 9:32 AM  
**To:** Richard A. Schwartz  
**Subject:** claim 1 390

*SIAN*

1. **(Currently Amended)** A method of tag-directed synthesis of a plurality of compounds, comprising:

(a) forming a first group of subsets of nucleic acid tags for participating in a first synthetic reaction step, wherein each nucleic acid ~~tags tag~~ comprises a first hybridization sequence linked to a second hybridization sequence, which said second hybridization sequence is linked to a chemical reaction site ~~and where the nucleic acid tags in each subset each has a selected one of a plurality of different first hybridization sequences, and a mixture of different second hybridization sequences,~~ by contacting said nucleic acid tags with a plurality of first immobilized nucleotide sequences, each designed to capture a subset of said **nucleic acid** tags by hybridization between one of said first hybridization sequences and the first immobilized sequence;

(b) carrying out the first synthetic step by reacting the chemical reaction sites in each of the subsets formed in (a) with a selected one of a plurality of first reagents, ~~thereby to convert the chemical reaction site in each of each subset of nucleic acid tag to a reagent-specific compound intermediate, on the nucleic acid tag in each subset to produce subsets of reacted nucleic acid tags;~~

(c) forming a second group of subsets of the **reacted** nucleic acid tags of step (b), for participation in a second synthetic reaction step, by contacting said **reacted** nucleic acid tags with a plurality of second immobilized nucleotide sequences, each designed to capture a subset of said **reacted** nucleic acid tags by hybridization between one of said second hybridization sequences and the second immobilized sequence; and

(d) carrying out the second synthetic step by reacting the reagent-specific compound intermediate of the **reacted** nucleic acid tag in each of the subsets formed in (c) with a selected one of a plurality of second reagents.

\*\*\*\*\*

Edward J. Baba  
 BOZICEVIC, FIELD & FRANCIS, LLP  
 1900 University Avenue, Suite 200  
 East Palo Alto, CA 94303  
 Main: (650) 327-3400  
 Fax: (650) 327-3231  
 Email: [Baba@bozpat.com](mailto:Baba@bozpat.com)  
 Web: [www.bozpat.com](http://www.bozpat.com)

\*\*\*\*\*

-----  
 NOTICE:

This electronic transmission and any attached document(s) are for the sole use of the individual or entity to whom it is addressed. It is confidential and may be attorney/client privileged. Any further distribution or copying of this message is strictly prohibited. If you received this message in error, please notify the

4/19/2006